

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1.-21. (Canceled)
22. (Currently Amended) A method of acidizing a near well bore region of a subterranean formation comprising ~~the steps of~~:
- (a) isolating a zone of interest along a well bore; and,
 - (b) placing an acidizing solution in the zone of interest, wherein the acidizing solution comprises an acid and a corrosion inhibiting compound comprising the reaction product of a thiol compound and an aldehyde compound, wherein the thiol compound has the general formula RSH wherein R is not H.
23. (Original) The method of claim 22 wherein the reaction product of a thiol compound and an aldehyde compound comprises a thioacetal.
24. (Currently Amended) The method of claim 23 wherein the thioacetal ~~comprises~~ is selected from the group consisting of: a monothioacetal, a dithioacetal, or and a combination thereof.
25. (Currently Amended) The method of claim 22 wherein the aldehyde compound ~~comprises~~ is selected from the group consisting of: a cinnamaldehyde, a cinnamaldehyde derivative, a crotonaldehyde, a crotonaldehyde derivative, a benzene acetaldehyde, a benzene acetaldehyde derivative, or and a combination thereof.
26. (Currently Amended) The method of claim 22 wherein the thiol compound ~~comprises~~ is selected from the group consisting of: thiosorbitol, hydrogen-sulfide, methanethiol, thioethanol, 1-thio-2-butanol, 1,2-ethanedithiol, 1,3-propanedithiol, 2-aminoethanethiol, 2-mercaptobenzothiazole, 2-mercaptothiazoline, glycol dimercaptoacetate, mercaptosuccinic acid, thioglycerol, thiolactic acid, cysteine, 6-amino-3-mercaptobenzothiazole, 6-ethoxy-2-mercaptobenzothiazole, glycerol monothioglycolate, monoethanolamine thioglycolate, methyl thioglycolate, isooctyl thioglycolate, ethyl thioglycolate, 2-ethyl hexyl thioglycolate, thioglycolic acid, or and a combination thereof.
27. (Original) The method of claim 22 wherein the corrosion inhibitor further comprises a traditional corrosion inhibitor.

28. (Currently Amended) The method of claim 27 wherein the traditional corrosion inhibitor ~~comprises~~ is selected from the group consisting of: cinnamaldehyde, acetylenic alcohols, fluorinated surfactants, quaternary derivatives of heterocyclic nitrogen bases, quaternary derivatives of halomethylated aromatic compounds, formamides, quaternary ammonium compounds, ~~or~~ and combinations thereof.

29. (Currently Amended) The method of claim 27 wherein the traditional corrosion inhibitor ~~comprises~~ is selected from the group consisting of: N-alkyl, N-cycloalkyl, an N-alkylarylpyridinium halide, N-alkyl, N-cycloalkyl, a N-alkylarylquinolinium halide, ~~or~~ and a combination thereof.

30. (Original) The method of claim 27 wherein the traditional corrosion inhibitor is present in an amount ranging from about 0.5% to about 80% by weight of the total corrosion inhibitor.

31. (Original) The method of claim 27 wherein the traditional corrosion inhibitor is present in an amount ranging from about 1% to about 45% by weight of the total corrosion inhibitor.

32. (Original) The method of claim 27 wherein the corrosion inhibitor further comprises a corrosion inhibitor activator.

33. (Currently Amended) The method of claim 32 wherein the corrosion inhibitor activator ~~comprises~~ is selected from the group consisting of: cuprous iodide; cuprous chloride; an antimony oxide, an antimony halide, an antimony tartrate, an antimony citrate, an alkali metal salt of antimony tartrate, an alkali metal salt of antimony citrate, an alkali metal salt of pyroantimonate, an antimony adduct of ethylene glycol; a bismuth oxide, a bismuth halide, a bismuth tartrate, a bismuth citrate, an alkali metal salt of bismuth tartrate, an alkali metal salt of bismuth citrate, iodine, an iodide compounds, formic acid, and combinations thereof.

34. (Original) The method of claim 32 wherein the corrosion inhibitor activator is present in an amount ranging from about 0.1% to about 100% by weight of the total corrosion inhibitor.

35. (Original) The method of claim 22 wherein the corrosion inhibitor further comprises a surfactant.

36. (Currently Amended) The method of claim 35 wherein the surfactant ~~comprises~~ is selected from the group consisting of: an ethoxylated nonyl phenol phosphate ester, a non-

ionic surfactant, a cationic surfactant, a non-ionic surfactant, an alkyl phosphonate surfactant, a linear alcohol, a monophenol compound, an alkyoxylated fatty acid, an alkylphenol alkoxyate, an ethoxylated amide, an ethoxylated alkyl amine, ~~or~~ and a combination thereof.

37. (Original) The method of claim 35 wherein the surfactant is present in an amount ranging from about 0.1% to about 50% of the weight of the total corrosion inhibitor.

38. (Original) The method of claim 22 wherein the corrosion inhibitor further comprises a solvent.

39. (Currently Amended) The method of claim 38 wherein the solvent ~~comprises~~ is selected from the group consisting of: an alcohol, a glycol, dimethyl formamide, N-methyl pyrrolidone, water ~~or~~ and a combination thereof.

40. (Original) The method of claim 38 wherein the solvent is present in an amount ranging from about 0.1% to about 60% by weight of the total corrosion inhibitor.

41. (Currently Amended) The method of claim 22 wherein the acid ~~comprises~~ is selected from the group consisting of: hydrochloric acid, hydrofluoric acid, acetic acid, formic acid, citric acid, ethylene diamine tetra acetic acid ("EDTA"), ~~or~~ and a combination thereof.